

# EUROPEAN PATENT OFFICE

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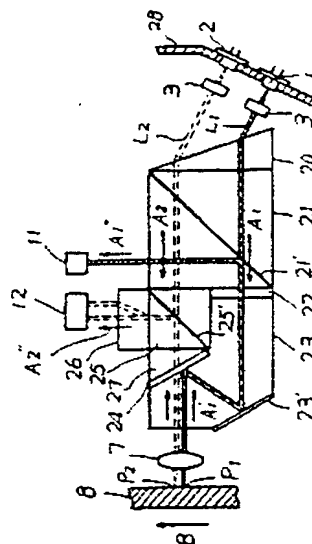
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TITLE : HEAD FOR OPTICAL DISK



ABSTRACT : PURPOSE: To eliminate the variation of the relative position of two laser beams so as to improve the productivity of the laser beams by closely arranging two laser diodes having different wavelengths and providing each optical element in an integrated constitution.

CONSTITUTION: A writing laser light  $L_1$  and reading-out laser light  $L_2$  which are respectively emitted from the 1st and 2nd laser diodes 1 and 2 and have different wavelengths pass through a circularity correcting prism 20 and polarization beam splitter (PBS) 21. Then the beam  $L_1$  is reflected by a total reflection film 23 and dichroic mirror (DM) 24 after passing through a 1/4-wave plate 22 and optical path adjusting prism 23 and converges into a focus at a point  $P_1$  on an optical disk 8 through a condenser lens 7. On the other hand, the beam  $L_2$  converges into a point  $P_2$  on the optical disk 8 after passing through a beam splitter 25, DM 24, and condenser lens 7. The reflecting rays of light from the points  $P_1$  and  $P_2$  advance in opposite directions and are respectively made incident to detectors 11 and 12 after they are reflected by the PBS 21 and BS 25. Confirmation and readout of writing data are performed by means of the outputs of the detectors 11 and 12.

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